

PRODUCTION OF 3-ACYLAMINO-4-OXO-4,5-DIHYDRO-1,2-DITHIOLO (4,3-B)PYRROLE DERIVATIVE

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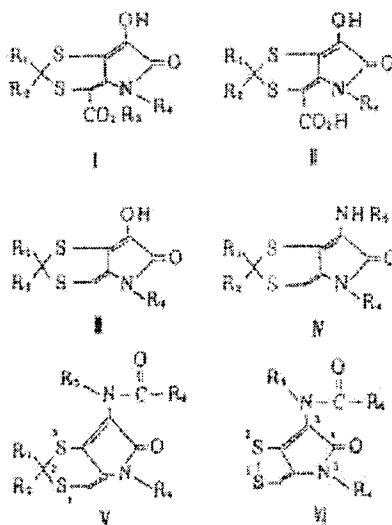
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Abstract of JP 63112586 (A)

PURPOSE: To obtain a pyrrothine based antibiotic, holothrin based antibiotic, etc., useful for an insecticide, by decarboxylating a specific pyrrole derivative and reacting the product with an amine, etc. **CONSTITUTION:** A 4-hydroxy-5-oxo-7-alkoxycarbonyl-5,6-dihydro-1,3-dithiino[5,4-b]pyrrole derivative expressed by formula I [R₁ and R₂ represent lower alkyl or (substituted)phenyl; R₃ represents lower alkyl; R₄ represents H or lower alkyl] is hydrolyzed to form a derivative expressed by formula II. Then this derivative is decarboxylated to form a derivative expressed by formula III and reacted with an amine expressed by the formula R₅-NH₂ (R₅ represents H or lower alkyl) to afford a 4-amino or substituted amino-5-oxo-5,6-dihydro-1,3-dithiino[5,4-b]pyrrole derivative expressed by formula IV. This compound is reacted with a compound expressed by the formula R₆COH al (R₆ represents R₁ or R₂), etc., to form a compound expressed by formula V, which is reacted with an oxidizing agent and mineral acid to give the aimed compound expressed by formula VI.



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